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CENTRAL INTELLIGENCE AGENCY

REPORT NO.

INFORMATION REPORT

CD NO.

COUNTRY East Germany

DATE DISTR 1 May 1953

SUBJECT 1. East German Jamming of West German Broadcasts
 2. Production of Jamming Equipment at Funkwerk
 Koepenick

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SOURCE

1. Two transmitters in East Germany are engaged in jamming West German broadcasts:
 - a. A transmitter, type SO, completed by Funkwerk Koepenick at the end of 1951. This is a mobile 20 kw transmitter in the medium frequency range (500 to 1600 kHz). It is mounted on about ten truck vehicles and a number of auxiliary vehicles. As of February/March 1953 this transmitter was located in Lurg near Magdeburg and was assigned the task of jamming through wobbling the transmissions of the RIAS Hof transmitter;
 - b. The old 20 kw transmitter in Plauen operating at 989 kHz, built by the Lorenz firm. This transmitter is assigned the task of jamming through wobbling the transmissions of RIAS Berlin received in the area of Saxony.
2. Up to March 1953, Funkwerk Koepenick had not engaged in research, development, or construction of jamming equipment (with the exception of above mentioned SO transmitter). If jamming should be systematically developed in a more refined form than the above-mentioned operations, it is probable that the transmitter experts of Funkwerk Koepenick would at least be consulted. In a very rough and summary form, the following list indicates the jamming methods with which Funkwerk personnel are familiar and which would be developed if such an assignment were to be given to the works:
 - a. Frequency change by steps with the result of producing alternating howling sounds caused by frequency superimposition;
 - b. Frequency change with the aid of a resonant-circuit condenser with the effect of producing wobble sounds;
 - c. Reception of the modulations of the target transmitter and re-transmitting them out of phase with the effect of producing echoes. This is done with the aid of a circuit element influencing the transit time;
 - d. Reception of the modulations of the target transmitter and re-transmitting them without phase distortion but with inverted

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frequency with the effect of changing high-pitched sounds into low-pitched ones and vice versa. This is done with the aid of a frequency inverter.

3. There is enough personnel available in the transmitter development division of Funkwerk Keopenick who would be able to handle the technical angle of jamming operations along one or all of the above mentioned lines. However, no request for making personnel available for this purpose has so far been made. It is believed that jamming research and development is still in the very initial stage in East Germany. There are rumors that it will be taken up in an organized form in the near future. The newly founded Central Institute for the Technology of Wireless Communications (Zentral-Institut fuer Funktechnik), affiliated to Main Administration for Wireless Communications (Hauptverwaltung Funk) of the Ministry for Post and Telecommunications, has allegedly been assigned the task of undertaking jamming research and development. Dr. (fnu) Gerhard, chief of the institute, and his assistant Dr. (fnu) Roosenstein are well acquainted with the technology of jamming.

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